

# Offshore Renewable Energy Strategy

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The EU is raising its climate targets for 2030 and is committed to becoming climate-neutral by 2050.

Renewable energy will play an important role in reaching this higher ambition – including the **generation of more energy at sea and from the sea**.

The EU is already **a world leader** in offshore renewable energy production and technologies. And there is potential for further development in a cost-effective way.

The European Commission's Offshore Renewable Energy Strategy will help to make this happen and **maintain the EU's leadership** in this sector.

# This EU Strategy will:

- > set **ambitious targets** for the growth of the offshore renewable energy sector
- encourage **public and private investment** in new infrastructure and research
- ▶ make it easier for different regions to work together more efficiently
- provide a clear and stable legal framework

# How it started, how it's going, what's the future

|   | 1991    | 2010" | Today | 2030  | 2050  |
|---|---------|-------|-------|-------|-------|
| Average power capacity of offshore wind turbine | 0,45 MW | 3MW   | 7,8MW | 1     | 1     |
|   |         |       |       |       |       |
| EU offshore wind energy capacity                | 5MW     | 3GW   | 12GW  | ≥60GW | 300GW |
|   |         |       |       |       |       |
| Ocean energy capacity (e.g. wave, tidal)        |         | 3,8MW | 13MW  | ≥1GW  | 40GW  |

<sup>\*</sup> First offshore wind farm: Vindeby, Denmark.

<sup>\*\*</sup> Including UK

# Offshore Renewable Energy is good for Europe's economy, environment and society



#### **ECONOMY**

- Investment, growth and export opportunities for European industry;
- Green jobs for citizens in coastal regions and inland, for example in manufacturing and research;
- Reduced dependence on imported energy, including fossil fuels.



### **ENVIRONMENT**

- Reduction of greenhouse gas emissions;
- Increased production of clean and renewable energy;
- Protection of the environment and biodiversity.



#### SOCIETY

- More affordable energy for European consumers;
- A more stable energy supply;
- Improved health and wellbeing of citizens through decreased air pollution.



# Main elements of the strategy



## **Investment**

- ► Encourage the necessary investment to effectively develop offshore renewable technologies estimated at almost €800 billion between now and 2050
- ▶ Increase certainty for investors and smooth the path for investments, ease bottlenecks, and find the best combination of public and private finance



## **Regional Cooperation**

- ▶ Promote cross-border cooperation, in particular in the North Sea, Baltic Sea, Mediterranean Sea, Black Sea, Atlantic Ocean, and outermost regions and overseas territories
- ▶ Promote a pan-European supply chain involving multiple regions, in coastal and inland areas
- ▶ Enhance maritime spatial planning for a successful large-scale deployment of offshore renewable energy and the sustainable use of our sea space and resources



## **Predictable Legal Framework**

- ▶ Promote innovative projects that will ensure a cost-effective deployment of offshore renewable energy
- ▶ Give certainty to promoters and reduce risk for investors



## **Strengthening Supply Chains and Supporting Continuous Innovation**

- Maintain and develop European technological and research leadership
- ▶ Upgrade port infrastructure to support deployment and connection of offshore energy
- ▶ Boost the full industrial value chain in Europe, including skills and labour support

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